

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1087

Effective May 1, 2009

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **June 2012**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

CertainTeed Bryn Mawr II Vinyl Double Hung Windows, Replacement Windows, Non-impact Resistant, manufactured by

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650 West Market Street
Gratz, PA 17030-0370
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will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The CertainTeed Bryn Mawr II double hung window is a vinyl double hung window. The vinyl double hung windows may be installed as replacement windows. The vinyl double hung windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for vinyl double hung windows based on the following tested construction:

General Description:

System	Description	Label Rating
1	Bryn Mawr II Vinyl Double Hung Window; (X/X)	H-R50 53 x 72
2	Bryn Mawr II Vinyl Double Hung Window; (X/X)	H-LC50 36 x 80
3	Bryn Mawr II Vinyl Double Hung Window; (X/X)	H-LC40 48 x 80

Product Dimensions:

System	Overall Size	Exterior Sash Size	Interior Sash Size
1	53" x 72"	48 $\frac{3}{4}$ " x 35 $\frac{1}{4}$ "	49 $\frac{7}{16}$ " x 35 $\frac{1}{2}$ "
2	36" x 80"	31 $\frac{1}{2}$ " x 38 $\frac{9}{16}$ "	32 $\frac{1}{4}$ " x 39 $\frac{1}{4}$ "
3	48" x 80"	43 $\frac{9}{16}$ " x 35 $\frac{5}{8}$ "	44 $\frac{3}{8}$ " x 39 $\frac{1}{2}$ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1
2	IG-2	GM-1
3	IG-1	GM-1

Note: ¹ See the "Glass Construction Key" for the glazing construction.

² See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:

IG-1: Both sashes contain a sealed insulating glass unit. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by a U-shaped spacer system that is embedded in sealant. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-2: Both sashes contain a sealed insulating glass unit. The sealed insulating glass units are comprised of two single strength ($\frac{3}{32}$ ") annealed glass lites separated by a metal reinforced butyl spacer system. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:

GM-1: The insulating glass units are set from the exterior onto a bed of structural silicone sealant. Snap-on dual-durometer glazing beads secure the insulating glass unit in place.

Frame Construction: The frame members are manufactured from extruded PVC (vinyl). The frame corners are mitered and welded construction. The head of the frame utilizes a vinyl snap-in head insert.

Sash Construction: The sash stiles and rails are constructed of extruded PVC (vinyl). The sash corners are mitered and welded construction.

System 1: The exterior sash bottom rail utilizes an interlock that is sealed to the bottom rail with silicone. The interior sash top rail utilizes a glazing bead with an integrated interlock.

Reinforcement: Extruded aluminum reinforcement is utilized in the exterior sash stiles and rails and in the interior sash stiles and rails. The reinforcement extends the length of the members. A corner weld support is utilized in each corner of the interior sash.

Hardware:

- Metal lock with adjacent keeper; Two (2) required; Located on the interior meeting rail.
- Plastic impact tilt latches (System 1); Two (2) required; Located at the ends of the interior meeting rail.
- Plastic tilt latches (Systems 2 and 3); Two (2) required; Located each end of the interior meeting rail.
- Plastic tilt latches; Two (2) required; Located at the ends of the top rail.
- Tilt latch keeper (System 1); Two (2) required; Located on the exterior meeting rail ends.
- Metal pivot bars; Two (2) required; Located at the ends of the interior sash, bottom rail.

Hardware (continued):

- Metal locking pivot bars (System 1); Two (2) required; Located at the ends of the exterior sash meeting rail.
- Coil balances (System 1); Four (4) required; Two (2) per side jamb.
- Constant force balance (Systems 2 and 3); Two (2) per side jamb.

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**BUR-1**); product name: **Bryn Mawr II DH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	53	72	± 50
2	36	80	± 50
3	48	80	± 40

Impact Resistance: These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

Acceptance of Smaller Assemblies: Window assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

INSTALLATION INSTRUCTIONS

General: The window assembly shall be installed in accordance with the manufacturer's installation instructions and this evaluation report. Detailed drawings and installation instructions are available from the manufacturer.

Installation: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be mounted to the wood wall framing members using the side jambs of the window. The side jambs are secured to the wall framing with minimum No. 8 screws. The fasteners shall be located approximately 6 inches from the head and the sill and one at the mid-span. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members. The window shall be set in a bed of silicone.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.